## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A proton conductor gas sensor wherein water vapor is supplied from a water reservoir to a sensor body having an MEA comprising an electrolyte membrane, a sensing electrode, and a counter electrode, said sensor characterized in that
- said water reservoir reserves gel comprising water as a dispersion medium and inorganic fine particles as a dispersoid dispersed in the water.
- 2. (Original) A proton conductor gas sensor according to claim 1, characterized in that said inorganic fine particles in said gel are silica fine particles.
- 3. (Currently Amended) A proton conductor gas sensor according to claim 2, characterized in that
- said silica fine particles are made of a silicon compound thermally decomposed in vapor phase.
- 4. (Original) A proton conductor gas sensor according to claim 1, characterized in that said sensor body having, in addition to said MEA, a metal plate having an opening towards the water reservoir and contacting the MEA directly.
- 5. (Original) A proton conductor gas sensor according to claim 4, characterized in that

said metal plate has concaves and convexes on its surface towards the MEA for gas distribution.

6. (Original) A proton conductor gas sensor according to claim 1, characterized by a cap having an opening for introducing ambient atmosphere towards said MEA from an opposite side of the MEA to the water reservoir and by

a thin plate between said cap and said MEA, having a diffusion control hole connected to the opening of the cap and having a smaller diameter than that of the opening of the cap.

7. (Original) A proton conductor gas sensor according to claim 1, characterized in that the MEA of the sensor body is sandwiched between a pair of an upper electro-conductive plate and a lower electro-conductive plate,

and that

a ring-shaped resinous member, having a pair of upper and lower flanges and a groove in between them, all being inside of the member, holds rims of the upper and lower electroconductive plates to press the rims by the upper and lower flanges for fixing the electroconductive plates and the MEA within the ring shaped member.

8. (Currently Amended) A proton conductor gas sensor wherein water vapor is supplied from a water reservoir to a sensor body having an MEA comprising an electrolyte membrane, a sensing electrode, and a counter electrode, said sensor characterized by

a cap having an opening for introducing ambient atmosphere towards said MEA from an opposite side of the MEA to the water reservoir and by

a thin plate between said cap and said MEA, having a diffusion control hole connected to the opening of the cap and having a smaller diameter than that of the opening of the cap.

9. (Currently Amended) A proton conductor gas sensor wherein water vapor is supplied from a water reservoir to a sensor body having an MEA comprising an electrolyte membrane, a sensing electrode, and a counter electrode, said sensor characterized in that

the MEA of the sensor body is sandwiched between a pair of an upper electro-conductive plate and a lower electro-conductive plate,

and that

a ring-shaped resinous member, having a pair of upper and lower flanges and a groove in between them, all being inside of the member, holds rims of the upper and lower electroconductive plates to press the rims by the upper and lower flanges for fixing the electroconductive plates and the MEA within the ring shaped member.